

LUNARIA NH 46 - 68



Compressor



Additive enhanced hydrocracked mineral oil for ammonia (R 717) refrigerating compressors.

APPLICATIONS

Refrigerating compressors using ammonia as a refrigerant

- Lubrication of refrigerating compressors (reciprocating and screw) using ammonia as a refrigerant.
- Hydrocracked technology of base oils to improve oil drain interval.
- Field of application : evaporator temperature down to -30°C.

SPECIFICATIONS

**OEM approvals/
references**

- APV, BOCK, J&E HALL, GRAM, GRASSO, HOWDEN, SABROE.

ADVANTAGES

**Cleanliness and high performances of the compressor :
Efficiency of the heat exchangers :
Operation cost cutting :**

Storage :

- High resistance to oxidation in the presence of ammonia. Base oils and additivation system specifically selected to avoid the formation of black sludges (reaction between oil and ammonia).
- Low pour point, eliminating the risk of any residual lubricant freezing in the evaporator, thereby providing excellent heat exchange.
- Very high flash point given the low volatility of LUNARIA NH oils : oil consumption is reduced by 30 to 50 % compared with conventional oils.
- Good compatibility with common elastomers (chloroprene, NBR....).
- Warning : storage must be done in order to avoid the presence of water within the oil. Indeed, water could block the evaporator.

TYPICAL CHARACTERISTICS	METHODS	UNITS	LUNARIA NH	
			46	68
Density at 15 °C	ISO 3675	kg/m ³	850	860
Viscosity at 40°C	ISO 3104	mm ² /s	46	68
Viscosity at 100°C	ISO 3104	mm ² /s	7.3	9.2
Pour Point	ISO 3016	°C	- 36	- 36
Flash point OC	ISO 2592	°C	246	256
Foaming test sequence 1 (tendency / stability)	ASTM D 892	mL / mL	0/0	0/0
Severe oxidation test (72 h at 150 °C – NH ₃ /air)	IP 280 modified			
- Increase in viscosity		%	+ 1.3	+ 3.8
- Insolubles in heptane, filter 0.8µm		mg	18.6	19.6
Dynamic viscosity at -12 °C	NFT 60-152	mPa.s	1095	2100
NOACK volatility (1 hour, 250°C)	ASTM D 5800	%	7	4.5
Compatibility with elastomers	NF ISO 6072			
- chloroprene, volume variation		%	5.5	2.0
- NBR, volume variation		%	-4.5	-4.5

Above characteristics are mean values given as an information.

**TOTAL LUBRIFIANTS
INDUSTRIE**

01-02-2019 (supersedes 28-06-2007)

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This lubricant used as recommended and for the application for which it has been designed does not present any particular risk.

A material safety data sheet conforming to the regulations in use in the E.C. can be obtained from your local commercial adviser or down loaded from www.quick-fds.com.